CENTER FOR HEALTH STATISTICS

DATA SUMMARY

REPORT REGISTER NO. DS98-11001 (October 1998) CHRONIC OBSTRUCTIVE PULMONARY DISEASE DEATHS CALIFORNIA, 1980-1996

Introduction

This report presents chronic obstructive pulmonary disease (COPD) death data in California for the years 1980 through 1996. Also included in this report are trend analyses and comparisons of the data by sex, age, race/ethnicity, and county.

COPD is a clinical term applied to persons with a permanent airflow obstruction associated with significant impairment. Individuals with COPD typically have symptoms of both chronic bronchitis and emphysema, but the classic triad also includes asthma. The majority of deaths due to COPD are caused by cigarette smoking (82 percent)¹, although cystic fibrosis, alpha1-antitrypsin deficiency, bronchiectasis and some rare forms of bullous lung disease can be causes as well.

There are over 30 million reported cases of COPD in the United States.² In 1996, COPD was the 4th leading cause of death in the United States³ and California.⁴ During that year, 11,373 Californians died of COPD representing more than one out of every nine COPD deaths nationwide.³ Deaths due to COPD predominantly affect the elderly, those aged 55 and over, and Whites. COPD is also the only lung disease category where the death rate among Whites exceeds that of Blacks in the United States³ and California.

Cigarette smoking is the leading cause of preventable disease and death in the United States. Due to the prevalence of smoking-related morbidity and mortality in our nation, the United States Public Health Service has established a number of health objectives, including one for COPD, which are published in *Healthy People 2000 Review 1997*. California's progress in meeting the national health objective for COPD is presented in this report.

Chronic Obstructive Pulmonary Disease Deaths

As shown in **Table 1** (page 5), the number of COPD deaths progressively increased from a low of 6,125 in 1980 to a high of 11,373 in 1996 representing a 85.7 percent increase. The number of COPD deaths among males and females also showed increases during this period. The COPD deaths among males increased from a low of 3,866 in 1980 to a high of 5,515 in 1996 representing a 42.7 percent increase. The COPD deaths among females increased substantially from a low of 2,259 in 1980 to a high of 5,858 in 1996 representing a 159.3 percent increase. Further comparison of the COPD death numbers by sex showed males had more deaths than females from 1980 through 1993. Beginning in 1994, however, the number of COPD deaths among females surpassed that of the males.

Table 2 (page 6) shows COPD deaths by the four major race/ethnic groups from 1985 though 1996. Throughout the 12-year period, the majority of deaths due to COPD were overwhelmingly among Whites (87.4 percent) followed by Blacks (4.8 percent), Hispanics (4.4 percent), and Asian/Other (3.4 percent). Analysis of the trend data revealed relatively constant increases in the number of COPD deaths among each of the four race/ethnic groups from 1980 through 1996. During this period, the number of COPD deaths increased 117.9 percent among Asian/Other, 60.7 percent among Blacks, 63.4 percent among Hispanics, and 26.9 percent among Whites.

This Data Summary was prepared by Les Fujitani, Center for Health Statistics, 304 S Street, P.O. Box 942732, Sacramento, CA 94234-7320, (916) 445-6355.

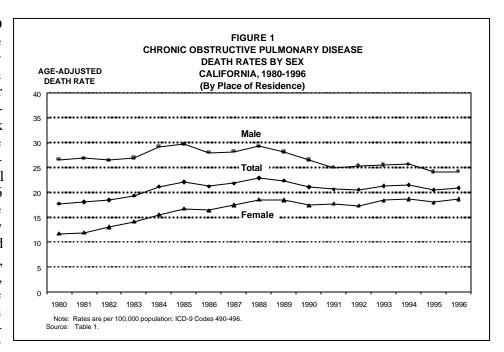
Chronic Obstructive Pulmonary Disease Crude Death Rates

As shown in **Table 1** (page 5), California's crude death rates due to COPD increased significantly from a low of 25.8 per 100,000 population in 1980 to a high of 35.1 in 1996 representing a 36.0 percent increase. COPD death rates among females revealed a similar pattern. Their death rate was 18.7 in 1980 and increased 94.1 percent through the following 16 years to a high of 36.3 in 1996, which was also a significant increase. In contrast, the COPD death rate among males was 33.0 in 1980, peaked to a high of 37.1 in 1985, and decreased back down to 34.0 in 1996. The trend in the male death rates from 1980 through 1996 was not significant. Further analysis of the COPD death rates by sex also revealed male COPD death rates were higher than female death rates from 1980 through 1992, although the differential between their death rates has narrowed over the 13-year period. Beginning in 1994, the female COPD death rate surpassed the male death rate, and continued to be higher in 1995 and 1996.

Table 2 (page 6) shows COPD crude death rates by the four major race/ethnic groups. From 1985 through 1996, Whites by far had the highest death rates. Their death rates were over two times higher than Blacks, over four times higher than Asian/Other, and nearly ten times higher than Hispanics. Nevertheless, all four race/ethnic groups showed increases in their death rates since 1985. The COPD death rates among Whites increased significantly from 47.4 per 100,000 population in 1985 to a high of 56.9 in 1996 representing a 20.0 percent increase. The Black COPD death rates rose 36.0 percent from 18.9 in 1985 to a high of 25.7 in 1996, which was significant. The COPD death rates among Asian/Other also increased significantly from 10.9 in 1985 to a high of 14.0 in 1996 representing a 28.4 percent increase. The Hispanic COPD death rates increased from 5.3 in 1985 to 5.7 in 1996, but this trend was not significant.

Chronic Obstructive Pulmonary Disease Age-Adjusted Death Rates

As illustrated in **Figure 1**, the COPD age-adjusted death rates among the total population climbed from a low of 17.7 per 100,000 population in 1980 to a high of 22.9 in 1988. Over the subsequent eight years, the ageadjusted death rates dropped back down to 20.8 in 1996. However, the overall upward trend in the ageadjusted death rates among the total population from 1980 through 1996 was significant. Analysis of the COPD age-adjusted death rates by sex showed the male age-adjusted death rate was 26.5 in 1980, increased to a high of 29.6 in 1985, and significantly declined over the next 11 years to a low of 24.1 in 1996. In contrast, the female ageadjusted death increased significantly



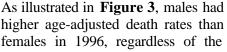
from a low of 11.7 in 1980 to a high of 18.7 in 1996. Even though the female age-adjusted death rates have risen significantly, the male age-adjusted death rates continue to be higher than the female age-adjusted death rates, but the gap has narrowed over the 17-year period. The male age-adjusted death rate was 2.3 times higher than the female age-adjusted death rate in 1980. Since then, the ratio of male to female age-adjusted death rates decreased steadily over the years to a low of 1.3 to 1 in 1996.

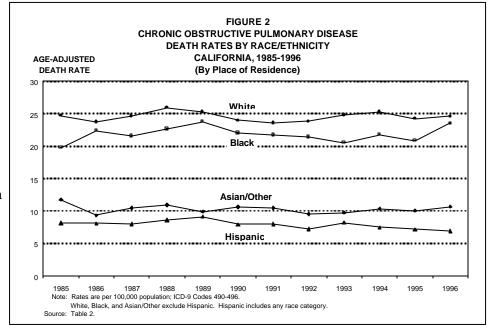
During each of the 17 years examined in this report, California has been below the year 2000 national health objective of no more than 25 age-adjusted COPD deaths per 100,000 population. Based on projections from 1980 through 1996, California's age-adjusted COPD death rate should remain below the national objective by the year 2000.

Chronic Obstructive Pulmonary Disease Age-Adjusted Death Rates (continued)

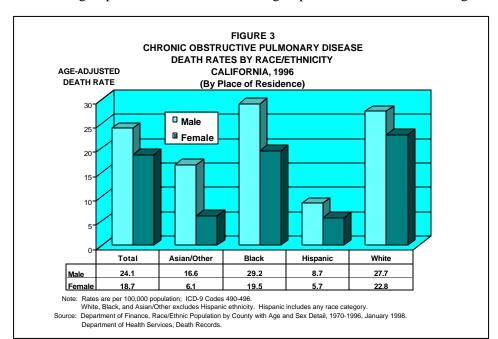
As illustrated in **Figure 2**, Whites had the highest age-adjusted death rates followed by Blacks, Asian/Other, and Hispanics from 1985 through 1996. Also, the age-adjusted death rates among Whites and Blacks were significantly higher than the age-adjusted death rates among Asian/Other and Hispanics during this period. The White age-adjusted death rate was 24.7 per 100,000 population in 1985, increased to a high of 25.9 in 1988, and then dropped back down to 24.6 in 1996. The Black age-adjusted death rate was 19.8 in 1985, rose to a high of 23.8 in 1989, decreased to 20.6 in 1993, and climbed back up to 23.5 in 1996. The age-adjusted death rate among Asian/Other was 11.8 in 1985, dropped to 9.4 in 1986, and fluctuated over the following 10 years to 10.7 in 1996. Although the age-adjusted death rates among

Whites, Blacks, and Asian/Other exhibited a considerable amount of variation over the twelve-year period, regression analysis revealed no significant upward or downward trend in the age-adjusted death rates among any of these race/ethnic groups. However, there was a significant downward trend in the age-adjusted death rates among Hispanics. Their age-adjusted death rate was 8.2 in 1985, increased to a high of 9.2 in 1989, and then decreased over the following seven years to a low of 6.9 in 1996.





race/ethnic group. Of the four race/ethnic groups, Asian/Other had the highest ratio of male to female age-adjusted



death rates, which was 2.7 to 1. In comparing the male age-adjusted death rates by race/ethnicity, Black males had the highest age-adjusted death rate, which was 29.2 per 100,000 population. Their ageadjusted death rate was higher than the age-adjusted death rate among White males (27.7),and significantly higher than the ageadjusted death rates Asian/Other males (16.6),and among Hispanic males (8.7). comparing the female age-adjusted death rates by race/ethnicity, White females had the highest age-adjusted death rate, which was 22.8 per 100,000 population. Their ageadjusted death rate was higher than the age-adjusted death rate among

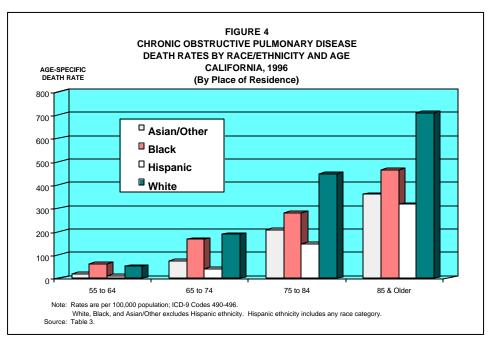
Black females (19.5), and significantly higher than the age-adjusted death rates among Asian/Other females (6.1), and among Hispanic females (5.7).

Chronic Obstructive Pulmonary Disease Age-Specific Deaths and Death Rates

As shown in **Table 3** (page 7), the majority of deaths due to COPD was among the elderly in 1996. California residents aged 75-84 had the greatest number of deaths due to COPD (4,535) followed by those aged 65-74 (3,037), and aged 85 and over (2,332). Of the four race/ethnic groups, Whites by far had the most COPD deaths (9,745) or 85.7 percent of the total number of COPD deaths in California. Correspondingly, they had the most COPD deaths in almost all of the eleven age groups. Analysis of the COPD deaths by race/ethnicity and sex revealed White females had the greatest number of deaths (5,156), although White males were close behind with 4,589 deaths.

Table 3 (page 7) also shows that the highest age-specific COPD death rates were among California residents aged 55 and over in 1996, regardless of their race/ethnicity. Further analysis of the age-specific death rates among those aged 55 and over by race/ethnicity and sex revealed males in every race/ethnic category had higher age-specific death rates than females, except for Whites aged 55-64.

As illustrated in **Figure 4**. Whites and Blacks had the highest agespecific COPD death rates, while Asian/Other and Hispanics had the lowest in 1996. Among those aged 85 and over, Whites had a considerably higher age-specific death rate (710.3 per 100,000 population) than Blacks (465.9), Asian/Other (360.7), and Hispanics (317.4). The same pattern existed among those aged 75-84 where Whites had the highest age-specific death rate (448.9) followed by Blacks (280.7),Asian/Other (207.8), and Hispanics (148.2). For those aged 65-74, Whites again had the highest age-specific death rate, but the differential between their age-specific death rate (188.7)



and the Black age-specific death rate (168.3) was much smaller than the two older age groups. Asian/Other and Hispanics within this age group followed with age-specific death rates of 75.3 and 40.3, respectively. Unlike the three older age groups, Blacks had the highest age-specific death rate (61.7) among those aged 55-64, whereas Whites had the second highest age-specific death rate (51.2) followed by Asian/Other (20.2), and Hispanics (11.3).

Chronic Obstructive Pulmonary Disease Death Rates Among California Counties

Table 4 (page 8) shows the 1994-1996 three-year average number of deaths and rates due to COPD for California and the 58 counties. Of the 58 counties, Los Angeles County had the highest number of deaths (2,623.3) followed by San Diego County (986.0), and Orange County (764.0).

Of the counties with reliable crude death rates due to COPD, Lake County had the highest crude death rate (104.3 per 100,000 population) and Imperial County had the lowest crude death rate (22.1). The crude rates for these two counties differed by a factor of 4.7 to 1. California's crude death rate due to COPD was 34.5.

Of the counties with reliable age-adjusted death rates due to COPD, Shasta County had the highest age-adjusted death rate (36.1 per 100,000 population), while Imperial County had the lowest age-adjusted death rate (15.0). California's age-adjusted death rate due to COPD was 21.0. In assessing California's progress in meeting the year 2000 national health objective of no more than 25 age-adjusted COPD deaths per 100,000 population, 40 out of California's 58 counties have met the objective.

TABLE 1 DEATHS DUE TO CHRONIC OBSTRUCTIVE PULMONARY DISEASE BY SEX

CALIFORNIA. 1980-1996 (By Place of Residence)

TOTAL 1996	SEX	EVENT	T DEATHS POPULATION CRUDE AGE-ADJUSTED 95% CONFIDE					DENCE LIMITS
1996		YEAR			RATE	RATE	LOWER	UPPER
1996 10,765 32,062,912 33.6 20.5 20.0 20.9 1994 11,017 31,790,557 34,7 21.5 21.1 21.9 1993 10,625 31,515,733 33.7 21.3 20.8 21.7 1992 10,040 31,166,559 32.2 20.6 20.1 21.0 1991 9,703 30,563,276 31.7 20.6 20.2 21.1 1990 3,647 29,942,977 32.2 21.1 20.6 21.5 1988 9,759 29,142,106 33.5 22.4 21.9 22.9 1988 9,759 22,142,106 33.5 22.4 21.9 22.9 1988 9,700 28,333,994 34.2 22.9 22.4 23.4 1987 8,379 27,716,860 32.4 21.8 21.4 22.3 1986 8,477 27,052,291 31.3 21.2 20.7 21.7 1985 8,060 64,02,633 32.6 22.1 21.6 22.6 1984 7,976 25,816,294 30.9 21.1 20.6 21.6 1983 7,093 25,336,301 28.0 19.3 18.8 19.8 1982 6,660 24,805,011 26.8 18.5 18.0 18.9 1981 6,333 24,277,674 26.1 18.1 17.6 18.5 1980 6,125 23,780,068 25.8 17.7 17.3 18.2 MALE 1996 5,515 16,227,924 34.0 24.1 23.5 24.8 1994 5,457 15,921,009 34.3 25.6 24.9 26.4 1995 5,290 16,062,552 32.9 24.1 23.4 24.8 1994 5,457 15,921,009 34.3 25.6 24.9 26.4 1993 5,226 15,782,166 33.7 25.5 24.8 26.2 1992 5,142 15,616,376 32.9 25.3 24.6 26.0 1993 5,226 15,782,166 33.9 26.5 25.8 27.3 1980 5,081 14,989,516 33.9 26.5 25.8 27.3 1980 5,081 14,989,516 33.9 26.5 25.8 27.3 1981 4,367 13,265,119 35.3 28.2 27.4 29.0 1983 4,271 17,27,983 33.5 28.2 27.4 29.0 1984 4,660 13,10,674 37.1 28.6 28.8 30.5 1985 5,475 16,00,300 34.2 18.0 17.5 18.5 1996 5,475 16,00,300 34.2 18.0 17.5 18.5 1991 4,460 15,5887 36.3 18.7 18.1 19.2 1986 4,670 13,10,674 37.1 28.6 28.8 30.5 1987 4,692 13,10,674 37.1 28.6 28.8 30.5 1988 4,644 4,958,8118 31.5 17.3 18.6 17.9 1999 4,566	TOTAL							
1994		1996	11,373	32,383,811	35.1	20.8	20.4	21.3
1993 10,625 31,515,753 33.7 21.3 20.8 21.7 1994 9,703 30,563,276 31.7 20.6 20.2 21.1 1990 9,647 29,942,397 32.2 21.1 20.6 20.2 21.5 1998 9,759 29,142,106 33.5 22.4 21.9 22.9 1988 9,700 28,393,094 34.2 22.9 22.4 23.4 1997 8,979 27,716,860 32.4 21.8 21.4 22.3 1996 8,477 27,052,291 31.3 21.2 20.7 21.7 1995 8,606 26,402,633 32.6 22.1 21.6 22.6 1994 7,976 25,816,294 30.9 21.1 20.6 21.6 1993 7,093 25,336,301 28.0 19.3 18.8 19.8 1992 6,660 24,805,011 28.8 18.5 18.0 18.9 1991 6,333 24,277,674 26.1 18.1 17.6 18.5 1996 6,125 23,780,068 25.8 17.7 17.3 18.2 MALE 1996 5,515 16,227,924 34.0 24.1 23.5 24.8 1994 5,457 15,921,009 34.3 25.6 24.9 26.4 1993 5,326 15,782,166 33.7 25.5 24.8 1993 5,326 15,782,166 33.7 25.5 24.8 1994 5,457 15,921,009 34.3 25.6 24.9 26.4 1995 5,290 14,899,516 33.9 26.5 25.8 27.3 1990 5,081 14,899,516 33.9 26.5 25.8 27.3 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,125 14,157,398 35.2 28.1 27.3 28.9 1990 5,125 14,157,398 35.2 28.1 27.3 28.9 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1990 5,081 14,197,00 36.7 29.3 28.4 30.1 1997 4,887 13,825,118 35.3 28.2 27.4 29.0 1998 5,125 14,191,00 36.7 29.3 28.4 30.1 1997 4,887 13,825,118 35.3 28.2 27.4 29.0 1998 5,25 14,191,00 36.7 29.3 28.4 30.5 1998 5,25 15,60,00,00 34.2 18.0 17.5 18.5 1999 4,644 4,522,881 30.5 17.7 17.2 18.3 1990 4,644 4			10,765	32,062,912				
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1991 9,703 30,563,276 31.7 20.6 20.2 21.1 1990 9,647 29,942,397 32.2 21.1 20.6 21.5 1998 9,759 29,142,106 33.5 22.4 21.9 22.9 1988 9,700 28,393,094 34.2 22.9 22.4 23.4 1987 8,779 27,716,860 32.4 21.8 21.4 22.3 1986 8,477 27,052,291 31.3 21.2 20.7 21.7 1985 8,606 26,402,633 32.6 22.1 21.6 22.6 1984 7,976 25,816,294 30.9 21.1 20.6 21.6 1983 7,093 25,336,301 20.0 19.3 18.8 19.8 1982 6,660 24,805,011 28.8 18.5 18.0 18.9 1981 6,333 24,277,674 26.1 18.1 17.6 18.5 1980 6,125 23,780,068 25.8 17.7 17.3 18.2 MALE MALE 1996 5,515 16,227,924 34.0 24.1 23.5 24.8 1993 5,236 15,762,166 33.7 25.5 24.8 26.2 1994 5,457 15,921,009 34.3 25.6 24.9 26.4 1993 5,326 15,782,166 33.7 25.5 24.8 26.2 1991 4,942 15,301,183 32.3 25.0 24.3 25.7 1999 5,125 14,573,988 35.2 28.1 27.3 28.9 1986 4,721 13,474,197 35.0 28.0 27.2 28.8 1996 4,887 13,825,118 35.3 28.2 27.4 29.0 1998 4,660 12,818,768 36.4 29.2 28.3 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 1998 4,660 12,818,768 36.4 29.2 28.3 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1998 4,887 13,825,118 35.3 28.2 27.4 29.0 1996 5,858 16,155,887 33.5 26.9 26.1 27.7 28.8 1996 5,858 16,155,887 33.1 26.9 26.0 27.7 28.8 1996 5,858 16,155,887 33.5 26.9 26.1 27.7 27.4 1996 5,858 16,155,887 33.5 17.7 17.2 18.3 1991 4,761 15,260,93 31.2		1993	10,625	31,515,753	33.7	21.3	20.8	21.7
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1988 9,759 29,142,106 33.5 22.4 21.9 22.9 1988 9,759 28,393,094 34.2 22.9 22.4 23.4 1987 8,979 27,716,860 32.4 21.8 21.4 22.3 1986 8,477 27,052,291 31.3 21.2 20.7 21.7 1985 8,066 26,402,633 32.6 22.1 21.6 22.6 1984 7,976 25,816,294 30.9 21.1 20.6 21.6 22.6 1984 7,976 25,816,294 30.9 21.1 20.6 21.6 22.6 1982 6,660 24,805,011 26.8 18.5 18.0 18.9 1982 6,660 24,805,011 26.8 18.5 18.0 18.9 1981 6,333 24,277,674 26.1 18.1 17.6 18.5 18.0 18.9 1981 6,333 24,277,674 26.1 18.1 17.6 18.5 18.0 19.9 6,125 23,780,068 25.8 17.7 17.3 18.2 18.2 18.9 1995 5,515 16,227,924 34.0 24.1 23.5 24.8 1995 5,290 16,062,552 32.9 24.1 23.4 24.8 1994 5,457 15,521,009 34.3 25.6 24.9 26.4 1993 5,226 15,762,166 33.7 25.5 24.8 26.2 29.9 24.1 23.4 24.8 26.2 1991 4,942 15,301,183 32.3 25.0 24.3 25.7 1991 4,942 15,301,183 32.3 25.0 24.3 25.7 1999 5,081 14,885,516 33.9 26.5 25.8 27.3 28.9 1998 5,125 14,573,988 35.2 28.1 27.3 28.9 1986 4,271 13,474,197 35.0 28.0 27.2 28.8 1985 4,870 13,326,118 35.3 28.2 27.4 29.0 1986 4,470 13,130,674 37.1 29.6 28.8 30.5 1994 4,660 12,616,768 36.4 29.2 28.3 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 27.4 29.0 27.4 29.0 27.2 28.8 1985 4,870 13,130,674 37.1 29.6 28.8 30.5 1994 4,660 12,616,768 36.4 29.2 28.3 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 27.4 29.0 27.4 29.0 27.7 29.6 28.8 30.5 1999 4,566 17,52,561 33.3 35.5 26.9 26.1 27.7 28.3 1999 4,566 14,952,881 30.5 14.6 18.1 19.2 1991 4,761 15,260,993 31.2 17.7 17.2 18.3 1991 4,761 15,260,993 31.2 17.7 17.2 18.3 1991 4,761 15,260,993 31.2 17.7 17.4 1			9,703	30,563,276				
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MALE								
1996	MALE	1980	6,125	23,780,068	25.8	17.7	17.3	18.2
1995 5,290	WALE	1996	5 515	16 227 924	34 0	24.1	23.5	24.8
1994								
1993								
1992								
1991								
1990 5,081 14,989,516 33.9 26.5 25.8 27.3 1989 5,125 14,573,988 35.2 28.1 27.3 28.9 1988 5,211 14,181,700 36.7 29.3 28.4 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 1986 4,721 13,474,197 35.0 28.0 27.2 28.8 1985 4,870 13,130,674 37.1 29.6 28.8 30.5 1984 4,660 12,818,768 36.4 29.2 28.3 30.1 1983 4,211 12,559,834 33.5 26.9 26.1 27.7 1982 4,034 12,275,613 32.9 26.4 25.6 27.3 1981 3,965 11,933,514 33.1 26.9 26.0 27.7 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 FEMALE 1996 5,858 16,155,887 36.3 18.7 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1986 3,756 13,578,094 27.7 16.4 15.8 17.9 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1988 3,736 13,271,959 28.1 16.7 16.4 15.8 17.0 1988 3,736 13,271,959 28.1 16.7 16.4 15.8 17.0 1988 2,626 12,297,526 25.5 15.5 14.9 16.1 1989 2,626 12,252,338 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1989 5,125 14,573,988 35.2 28.1 27.3 28.9 1988 5,211 14,181,700 36.7 29.3 28.4 30.1 1987 4,887 13,825,118 35.3 28.2 27.4 29.0 1986 4,721 13,474,197 35.0 28.0 27.2 28.8 1985 4,870 13,130,674 37.1 29.6 28.8 30.5 1984 4,660 12,818,768 36.4 29.2 28.3 30.1 1983 4,211 12,559,834 33.5 26.9 26.1 27.7 1982 4,034 12,275,613 32.9 26.4 25.6 27.3 1981 3,965 11,993,514 33.1 26.9 26.0 27.7 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 1990 4,560 15,869,548 35.0 18.6 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1992 4,888 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1991 1988 4,489 14,211,394 31.6 18.5 17.0 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1985 3,736 13,578,094 27.7 16.4 15.8 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 17.3 1982 2,666 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1988 5,211					35.2	28.1	27.3	
1986 4,721 13,474,197 35.0 28.0 27.2 28.8 1985 4,870 13,130,674 37.1 29.6 28.8 30.5 1984 4,660 12,818,768 36.4 29.2 28.3 30.1 1983 4,211 12,559,834 33.5 26.9 26.1 27.7 1982 4,034 12,275,613 32.9 26.4 25.6 27.3 1981 3,965 11,993,514 33.1 26.9 26.0 27.7 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 1980 13,866 11,722,769 33.0 26.5 25.7 27.4 1980 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 19.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1999 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.5 17.9 19.1 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 19.82 2,666 12,529,398 21.0 13.0 12.5 13.6 19.81 2,368 12,284,160 19.3 11.9 11.4 12.4		1988		14,181,700	36.7	29.3	28.4	30.1
1985		1987	4,887	13,825,118	35.3	28.2	27.4	29.0
1984 4,660 12,818,768 36.4 29.2 28.3 30.1 1983 4,211 12,559,834 33.5 26.9 26.1 27.7 1982 4,034 12,275,613 32.9 26.4 25.6 27.3 1981 3,965 11,993,514 33.1 26.9 26.0 27.7 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 FEMALE 1996 5,858 16,155,887 36.3 18.7 18.1 19.2 19.2 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.9 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.9 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.		1986	4,721	13,474,197	35.0	28.0	27.2	28.8
1983		1985	4,870	13,130,674		29.6	28.8	30.5
1982			•					
1981 3,965 11,993,514 33.1 26.9 26.0 27.7 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 FEMALE 1996 5,858 16,155,887 36.3 18.7 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 191 1988 4,489 14,211,394 31.6 18.5 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 19.1 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4				12,559,834				
FEMALE 1980 3,866 11,722,769 33.0 26.5 25.7 27.4 1996 5,858 16,155,887 36.3 18.7 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3				12,275,613				
FEMALE 1996 5,858 16,155,887 36.3 18.7 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3								
1996 5,858 16,155,887 36.3 18.7 18.1 19.2 1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,3		1980	3,866	11,722,769	33.0	26.5	25.7	27.4
1995 5,475 16,000,360 34.2 18.0 17.5 18.5 1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1982 2,6	FEMALE	4000	E 050	16 1EE 007	26.2	10.7	10.1	40.2
1994 5,560 15,869,548 35.0 18.6 18.1 19.2 1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,6								
1993 5,299 15,733,587 33.7 18.4 17.8 18.9 1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,3								
1992 4,898 15,570,183 31.5 17.3 16.8 17.8 1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4				, ,				
1991 4,761 15,262,093 31.2 17.7 17.2 18.3 1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4			•					
1990 4,566 14,952,881 30.5 17.4 16.8 17.9 1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1989 4,634 14,568,118 31.8 18.5 17.9 19.1 1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4			•					
1988 4,489 14,211,394 31.6 18.5 18.0 19.1 1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1987 4,092 13,891,742 29.5 17.4 16.9 18.0 1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4			•					
1986 3,756 13,578,094 27.7 16.4 15.8 17.0 1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1985 3,736 13,271,959 28.1 16.7 16.1 17.3 1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1984 3,316 12,997,526 25.5 15.5 14.9 16.1 1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4				13,271,959				
1983 2,882 12,776,467 22.6 14.1 13.6 14.7 1982 2,626 12,529,398 21.0 13.0 12.5 13.6 1981 2,368 12,284,160 19.3 11.9 11.4 12.4								
1981 2,368 12,284,160 19.3 11.9 11.4 12.4		1983	2,882	12,776,467	22.6	14.1	13.6	
		1982		12,529,398	21.0	13.0	12.5	13.6
1980 2,259 12,057,299 18.7 11.7 11.2 12.2			2,368	12,284,160				
		1980	2,259	12,057,299	18.7	11.7	11.2	12.2

Note: Rates are per 100,000 population; ICD-9 Codes 490-496.

Source: State of California, Department of Finance, Race/Ethnic Population Estimates by County with Age and Sex Detail, 1970-1996, January 1998. State of California, Department of Health Services, Death Records.

TABLE 2
DEATHS DUE TO CHRONIC OBSTRUCTIVE PULMONARY DISEASE
BY RACE/ETHNICITY
CALIFORNIA, 1985-1996
(By Place of Residence)

RACE/	EVENT	ENT DEATHS POPULATION CRUDE AGE-AI				E-ADJUSTED 95% CONFID			
ETHNICITY	YEAR			RATE	RATE	LOWER	UPPER		
ASIAN/OTHER									
ASIAN/OTHER	1996	512	3,645,998	14.0	10.7	9.7	11.7		
	1995	466	3,530,931	13.2	10.1	9.1	11.0		
	1994	435	3,429,125	12.7	10.4	9.4	11.4		
	1993	385	3,323,013	11.6	9.8	8.8	10.8		
	1992	351	3,209,399	10.9	9.6	8.6	10.6		
	1991	356	3,068,424	11.6	10.5	9.4	11.6		
	1990	332	2,930,570	11.3	10.6	9.5	11.8		
	1989	273	2,774,167	9.8	9.9	8.7	11.1		
	1988	286	2,616,586	10.9	11.0	9.7	12.3		
	1987	252	2,465,134	10.2	10.5	9.2	11.8		
	1986	207	2,313,141	8.9	9.4	8.1	10.7		
	1985	235	2,158,886	10.9	11.8	10.2	13.3		
BLACK			,,						
	1996	585	2,275,401	25.7	23.5	21.5	25.5		
	1995	504	2,250,502	22.4	20.9	19.0	22.7		
	1994	519	2,232,841	23.2	21.8	19.8	23.7		
	1993	471	2,214,376	21.3	20.6	18.6	22.5		
	1992	479	2,192,451	21.8	21.4	19.4	23.4		
	1991	474	2,147,691	22.1	21.7	19.7	23.7		
	1990	468	2,105,207	22.2	22.0	19.9	24.1		
	1989	488	2,061,823	23.7	23.8	21.6	25.9		
	1988	455	2,024,779	22.5	22.7	20.5	24.8		
	1987	415	1,992,361	20.8	21.6	19.4	23.7		
	1986	421	1,958,844	21.5	22.4	20.2	24.6		
	1985	364	1,923,209	18.9	19.8	17.7	21.9		
HISPANIC									
	1996	531	9,330,740	5.7	6.9	6.3	7.6		
	1995	499	9,100,994	5.5	7.2	6.5	7.9		
	1994	507	8,882,966	5.7	7.5	6.8	8.2		
	1993	548	8,658,118	6.3	8.2	7.5	9.0		
	1992	437	8,421,133	5.2	7.3	6.6	8.0		
	1991	456 433	8,097,870	5.6 5.6	8.0	7.3 7.2	8.8		
	1990 1989	433 445	7,774,789 7,410,574	6.0	8.0 9.2	8.3	8.8 10.0		
			7,419,574						
	1988 1987	400 363	7,077,579 6,754,398	5.7 5.4	8.6 8.0	7.8 7.2	9.5 8.9		
	1986	330	6,428,436	5.4 5.1	8.1	7.2	9.0		
	1985	325	6,103,662	5.3	8.2	7.3	9.1		
WHITE	1000	020	0,100,002	0.0	Ų.	7.10	011		
	1996	9,745	17,131,672	56.9	24.6	24.1	25.2		
	1995	9,296	17,180,485	54.1	24.2	23.7	24.8		
	1994	9,556	17,245,625	55.4	25.3	24.7	25.8		
	1993	9,221	17,320,246	53.2	24.8	24.2	25.4		
	1992	8,773	17,363,576	50.5	23.8	23.3	24.4		
	1991	8,417	17,249,291	48.8	23.6	23.0	24.1		
	1990	8,414	17,131,831	49.1	24.0	23.4	24.5		
	1989	8,553	16,886,542	50.6	25.3	24.7	25.9		
	1988	8,559	16,674,150	51.3	25.9	25.4	26.5		
	1987	7,949	16,504,967	48.2	24.6	24.0	25.2		
	1986	7,519	16,351,870	46.0	23.7	23.1	24.3		
	1985	7,682	16,216,876	47.4	24.7	24.1	25.3		

Note: Rates are per 100,000 population; ICD-9 Codes 490-496.

 $\label{thm:continuity:equation:continuity:eq$

Source: State of California, Department of Finance, Race/Ethnic Population Estimates by County with Age and Sex Detail, 1970-1996, January 1998.

State of California, Department of Health Services, Death Records.

TABLE 3 DEATHS DUE TO CHRONIC OBSTRUCTIVE PULMONARY DISEASE BY RACE/ETHNICITY. AGE. AND SEX **CALIFORNIA**, 1996 (By Place of Residence)

RACE/	AGE GROUPS	1996 DEATHS		POPULATION			AGE-SPECIFIC DEATH RATE			95% CONFIDENCE LIMITS TOTAL MALE FEMALE					1A1 E	
ETHNICITY	GROUPS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE					LOWER	
TOTAL																
	Under 1	2	1	1	540,625	276,538	264,087	0.4 *	0.4 *	0.4 *	0.0	0.9	0.0	1.1	0.0	1.1
	1 to 4	5	5	0	2,298,325	1,175,708	1,122,617	0.2 *	0.4 *	0.0 +	0.0	0.4	0.1	0.8	-	-
	5 to 14	18	12	6	4,914,945	2,514,194	2,400,751	0.4	0.5	0.2 *	0.2	0.5	0.2	0.7	0.0	0.4
	15 to 24	24	12	12	4,217,867	2,198,841	2,019,026	0.6	0.5	0.6	0.3	0.8	0.2	0.9	0.3	0.9
	25 to 34	42	20	22	5,357,377	2,828,447	2,528,930	8.0	0.7	0.9	0.5	1.0	0.4	1.0	0.5	1.2
	35 to 44	97	45	52	5,401,744	2,741,290	2,660,454	1.8	1.6	2.0	1.4	2.2	1.2	2.1	1.4	2.5
	45 to 54	300	144	156	3,806,109	1,887,994	1,918,115	7.9	7.6	8.1	7.0	8.8	6.4	8.9	6.9	9.4
	55 to 64	979	489	490	2,359,866	1,146,990	1,212,876	41.5	42.6	40.4	38.9	44.1	38.9	46.4	36.8	44.0
	65 to 74 75 to 84	3,037 4,535	1,543 2,219	1,494 2,316	1,954,134 1,161,701	879,924 465,740	1,074,210 695,961	155.4 390.4	175.4 476.4	139.1 332.8	149.9 379.0	160.9 401.7	166.6 456.6	184.1 496.3	132.0 319.2	146.1 346.3
	85 & Older	2,332	1,024	1,308	371,118	112,258	258,860	628.4	912.2	505.3	602.9	653.9	856.3	968.1	477.9	532.7
	Unknown	2,002	1	1,000	071,110	112,200	200,000	020.4	J. L. L	000.0	002.0	000.0	000.0	300.1	411.0	002.7
ACIANICTUED	Total	11,373	5,515	5,858	32,383,811	16,227,924	16,155,887	35.1	34.0	36.3	34.5	35.8	33.1	34.9	35.3	37.2
ASIAN/OTHER	Under 1	0	0	0	60,717	31,247	29,470	0.0 +	0.0 +	0.0 +						_
	1 to 4	1	1	0	254,397	131,069	123,328	0.0 +	0.0 +		0.0	1.2	0.0	2.3	-	
	5 to 14	3	2	1	564,354	288,489	275,865	0.5 *	0.7 *		0.0	1.1	0.0	1.7	0.0	1.1
	15 to 24	3	3	0	533,767	274,693	259,074	0.6 *	1.1 *		0.0	1.2	0.0	2.3	-	-
	25 to 34	6	4	2	599,056	301,165	297,891	1.0 *	1.3 *		0.2	1.8	0.0	2.6	0.0	1.6
	35 to 44	5	3	2	631,504	303,109	328,395	0.8 *	1.0 *	0.6 *	0.1	1.5	0.0	2.1	0.0	1.5
	45 to 54	13	6	7	438,067	207,939	230,128	3.0	2.9 *	3.0 *	1.4	4.6	0.6	5.2	8.0	5.3
	55 to 64	52	28	24	256,917	120,782	136,135	20.2	23.2	17.6	14.7	25.7	14.6	31.8	10.6	24.7
	65 to 74	142	105	37	188,491	81,782	106,709	75.3	128.4	34.7	62.9	87.7	103.8	152.9	23.5	45.8
	75 to 84	192	140	52	92,392	39,642	52,750	207.8	353.2	98.6	178.4	237.2	294.7	411.7	71.8	125.4
	85 & Older	95	56	39 0	26,336	11,231	15,105	360.7	498.6	258.2	288.2	433.3	368.0	629.2	177.2	339.2
	Unknown Total	0 512	0 348	164	3,645,998	1,791,148	1,854,850	14.0	19.4	8.8	12.8	15.3	17.4	21.5	7.5	10.2
BLACK	Iotai	312	340	104	3,043,990	1,791,140	1,654,650	14.0	13.4	0.0	12.0	13.3	17.4	21.5	7.3	10.2
	Under 1	1	1	0	37,276	18,939	18,337	2.7 *	5.3 *	0.0 +	0.0	7.9	0.0	15.6	-	-
	1 to 4	1	1	0	170,539	86,386	84,153	0.6 *	1.2 *	0.0 +	0.0	1.7	0.0	3.4	-	-
	5 to 14	7	4	3	388,094	196,545	191,549	1.8 *	2.0 *	1.6 *	0.5	3.1	0.0	4.0	0.0	3.3
	15 to 24	5	4	1	345,698	182,527	163,171	1.4 *	2.2 *		0.2	2.7	0.0	4.3	0.0	1.8
	25 to 34	10	6	4	395,287	203,575	191,712	2.5 *	2.9 *		1.0	4.1	0.6	5.3	0.0	4.1
	35 to 44	24	12	12	371,892	180,097	191,795	6.5	6.7	6.3	3.9	9.0	2.9	10.4	2.7	9.8
	45 to 54	47 94	19 51	28 43	242,802 152,306	114,139 71,336	128,663 80,970	19.4	16.6	21.8 53.1	13.8	24.9 74.2	9.2 51.9	24.1 91.1	13.7 37.2	29.8 69.0
	55 to 64 65 to 74	172	93	43 79	102,194	43,656	58,538	61.7 168.3	71.5 213.0	135.0	49.2 143.2	193.5	169.7	256.3	105.2	164.7
	75 to 84	150	84	66	53,430	19,675	33,755	280.7	426.9	195.5	235.8	325.7	335.6	518.2	148.4	242.7
	85 & Older	74	25	49	15,883	4,669	11,214	465.9	535.4	437.0	359.8	572.1	325.6	745.3	314.6	559.3
	Unknown	0	0	0												
LUCDANIC	Total	585	300	285	2,275,401	1,121,544	1,153,857	25.7	26.7	24.7	23.6	27.8	23.7	29.8	21.8	27.6
HISPANIC	Under 1	0	0	0	252,617	128,626	123,991	0.0 +	0.0 +	0.0 +						
	1 to 4	1	1	0	1,034,656	527,237	507,419	0.1 *	0.2 *		0.0	0.3	0.0	0.6	-	-
	5 to 14	3	2	1	1,816,510	925,990	890,520	0.2 *	0.2 *		0.0	0.4	0.0	0.5	0.0	0.3
	15 to 24	6	2	4	1,436,639	749,483	687,156	0.4 *	0.3 *	0.6 *	0.1	0.8	0.0	0.6	0.0	1.2
	25 to 34	6	2	4	1,808,376	1,012,882	795,494	0.3 *	0.2 *		0.1	0.6	0.0	0.5	0.0	1.0
	35 to 44	7	5	2	1,372,005	720,340	651,665	0.5 *	0.7 *		0.1	0.9	0.1	1.3	0.0	0.7
	45 to 54	26	11	15	747,447	376,227	371,220	3.5	2.9 *		2.1	4.8	1.2	4.7	2.0	6.1
	55 to 64	47	29 65	18	416,154	200,126	216,028	11.3	14.5	8.3	8.1	14.5	9.2	19.8	4.5	12.2
	65 to 74 75 to 84	113 181	91	48 90	280,103 122,130	126,447 48,089	153,656 74,041	40.3 148.2	51.4 189.2	31.2 121.6	32.9 126.6	47.8 169.8	38.9 150.4	63.9 228.1	22.4 96.4	40.1 146.7
	75 to 64 85 & Older	140	69	71	44,103	15,454	28,649	317.4	446.5	247.8	264.9	370.0	341.1	551.8	190.2	305.5
	Unknown	1	1	0	.4,100	.0,404	_0,040	·	. 70.0	-71.0	_54.5	5.0.0	· · · · · ·	551.0	. 30.2	220.0
	Total	531	278	253	9,330,740	4,830,901	4,499,839	5.7	5.8	5.6	5.2	6.2	5.1	6.4	4.9	6.3
WHITE	11. 1 4			_	400.045	07.700		25.4				4.0				
	Under 1 1 to 4	1 2	0 2	1 0	190,015 838,733	97,726 431,016	92,289 407,717	0.5 * 0.2 *	0.0 + 0.5 *		0.0 0.0	1.6 0.6	0.0	1.1	0.0	3.2
	5 to 14	5	4	1	2,145,987	1,103,170	1,042,817	0.2 *	0.5		0.0	0.6	0.0	0.7	0.0	0.3
	15 to 24	10	3	7	1,901,763	992,138	909,625	0.2	0.4		0.0	0.4	0.0	0.7	0.0	1.3
	25 to 34	20	8	12	2,554,658	1,310,825	1,243,833	0.8	0.6 *	1.0	0.4	1.1	0.2	1.0	0.4	1.5
	35 to 44	61	25	36	3,026,343	1,537,744	1,488,599	2.0	1.6	2.4	1.5	2.5	1.0	2.3	1.6	3.2
	45 to 54	214	108	106	2,377,793	1,189,689	1,188,104	9.0	9.1	8.9	7.8	10.2	7.4	10.8	7.2	10.6
	55 to 64	786	381	405	1,534,489	754,746	779,743	51.2	50.5	51.9	47.6	54.8	45.4	55.5	46.9	57.0
	65 to 74	2,610	1,280	1,330	1,383,346	628,039	755,307	188.7	203.8	176.1	181.4	195.9	192.6	215.0	166.6	185.6
	75 to 84	4,012	1,904	2,108	893,749	358,334	535,415	448.9	531.3	393.7	435.0	462.8	507.5	555.2	376.9	410.5
	85 & Older	2,023	874	1,149	284,796	80,904	203,892	710.3	1,080.3	563.5	679.4	741.3	1,008.7	1,151.9	530.9	596.1
	Unknown Total	1 9,745	0 4,589	1 5,156	17,131,672	8,484,331	8,647,341	56.9	54.1	59.6	55.8	58.0	52.5	55.7	58.0	61.3
	. Juli	5,775	-,503	5,150	,	0,-0-,001	0,071,071	50.5	J-7.1	33.0	33.0	30.0	32.3	33.1	30.0	31.3

Note: Rates are per 100,000 population; ICD-9 Codes 490-496.
White, Black, and Asian/Other exclude Hispanic ethnicity. Hispanic includes any race category.

Source: State of California, Department of Finance, Race/Ethnic Population Estimates by County with Age and Sex Detail, 1970-1996, January 1998. State of California, Department of Health Services, Death Records.

^{*} Death rate unreliable, relative standard error is greater than 30%.

+ Standard error indeterminate, death rate based on no (zero) deaths.

- Upper and lower limits at the 95% confidence level are indeterminate.

TABLE 4 DEATHS DUE TO CHRONIC OBSTRUCTIVE PULMONARY DISEASE **CALIFORNIA COUNTIES. 1994-1996** (Bv Place of Residence)

CALIFORNIA 33,155 11,051,7 100,0 32,062,912 34.5 21.0 20.5 21.4	COUNTY	DEATHS 1994-1996	1994-1996 DEATHS (AVERAGE)	PERCENT	1995 POPULATION	CRUDE RATE	AGE-ADJUSTED RATE	95% CONFIC LOWER	ENCE LIMITS UPPER
ALPINE 0 0 0.0 0.0 1,185 0.0 + 0.0 +		·	·		· ·				
AMADOR 52 17.3 0.2 32,572 53.2 15.6 7.7 22.5 BUTTE 446 146.7 1.3 196,108 75.8 29.9 24.2 35.7 CALAVERAS 55 18.3 0.2 36,907 49.7 16.7 8.1 25.3 COLUSA 24 8.0 0.1 17.799 44.9 25.0 6.2 43.9 CONTRA COSTA 848 282.7 2.6 867,315 32.6 18.2 15.9 20.5 DEL NORTE 45 15.0 0.1 27,5757 54.4 31.8 13.9 48.5 19.0 DEL NORTE 45 15.0 0.1 27,5757 54.4 31.8 13.9 48.5 19.0 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.0 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 13.9 48.5 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.4 31.8 19.5 DEL NORTE 45 15.0 0.1 127,5757 54.5 DEL								17.3	21.4
BUTTE					·				-
CALAVERAS 55 19.3 0.2 36,907 49.7 16.7 8.1 25.3 COUTSA 24 8.0 0.1 17.799 44.9 25.0 6.2 43.9 CONTRA COSTA 848 282.7 2.6 867.315 32.6 19.2 15.9 20.5 DEL NORTE 45 15.0 0.1 27.597 54.4 31.8 13.9 49.8 EL DORADO 165 55.0 0.5 144.158 38.2 20.5 14.7 26.3 FRESNO 70 25.3 2.3 754.045 33.6 22.1 19.1 22.0 GLENORY 49 16.3 0.1 27.597 54.4 31.8 32.2 20.5 14.7 26.3 FRESNO 70 25.3 2.3 754.045 33.6 22.1 19.1 22.0 GLENORY 49 16.3 0.1 27.574.5 22.1 15.0 12.2 15.0					•				
COLUSA 24 8.0 0.1 17,799 44.9 25.0 6.2 43.9 CONTRA COSTA 848 22.7 26 867,315 32.6 18.2 15.9 20.5 DEL NORTE 45 15.0 0.1 27,597 54.4 31.8 13.9 49.6 EL DORANDO 165 55.0 0.5 144,158 32.2 20.5 14.7 26.3 FRESNO 760 253.3 2.3 754,045 33.6 22.1 19.1 25.0 GLENN 49 16.3 0.1 26,523 16.6 29.2 13.5 44.9 HUMBOLIT 248 82.7 0.7 1124,464 66.4 35.9 27.2 13.5 44.9 HUMBOLIT 249 82.7 0.7 1124,464 66.4 35.9 27.2 13.5 44.9 HUMBOLIT 40 13.3 0.3 118,571 18.2 20.6 7.4 33.8 KERN 662 22.0 7 2.0 616,701 35.8 24.9 21.4 22.4 33.8 KERN 662 22.0 7 2.0 616,701 35.8 24.9 21.4 22.4 33.8 KERN 662 7 22.0 7 2.0 616,701 35.8 24.9 21.4 22.4 34.5 LANE 172 57.3 0.5 54,984 104.3 31.7 21.9 41.5 LASSEN 40 13.3 0.1 26,678 46.5 28.1 11.8 44.3 LOS ANGELES 7,870 2,623.3 23.7 9,352,192 28.1 18.3 17.6 19.1 MADERA 13.4 4.7 0.4 106,429 42.0 24.5 16.6 23.3 MARIN 284 94.7 0.9 238,981 39.6 18.4 14.3 17.2 40.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 40.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 88,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 88,269 49.0 23.1 15.2 30.9 MENDOLONO 124 41.3 0.4 88,260 43.8 22.2 2.6 16.1 22.1 NAPA 195 65.0 0.6 117,735 55.2 22.6 16.1 22.1 NAPA 195 65.0 0.6 117,735 55.2 22.6 16.1 22.1 NAPA 195 65.0 0.6 117,735 55.2 22.6 16.1 22.1 NAPA 195 65.0 0.6 117,735 65.2 22.6 16.1 12.2 17.8 20.7 NEVADA 146 68.7 0.4 86,506 65.3 20.0 13.5 26.5 NABERNARINO 1,672 444.0 4.3 1,117,748 42.4 26.3 3.7 21.6 25.5 NABERNARINO 1,572 44.0 4.3 1,117,748 42.4 26.3 3.7 21.6 25.5 NABERNARINO 1,572 474.0 4.3 1,117,748 42.4 26.3 3.7 21.6 25.5 NABERNARINO 1,572 474.0 4.3 1,117,748 42.4 26.3 3.7 21.6 25.5 NABERNARINO 1,572 474.0 4.3 1,117,748 42.4 42.6 3.3 3.7 21.6 25.5 NAN BERNARINO 1,572 474.0 4.3 1,117,748 42.4 44.7 21.3 3.1 7.2 20.5 NAN					•				
DOLINORTE 45 15.0 0.1 27.7597 54.4 31.8 13.9 49.6 EL DORADO 165 55.0 0.5 144.158 38.2 20.5 14.7 25.3 FRESNO 760 253.3 2.3 754.045 33.6 22.1 19.1 25.0 GLENN 49 16.3 0.1 26.523 61.6 29.2 13.6 44.9 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5					·				
DEL NORTE					•				
EL DORADO 165 55.0 0.5 144,188 38.2 20.5 14.7 26.3 FRESNO 760 253.3 2.3 754,045 33.6 22.1 19.1 25.0 GLENN 49 16.3 0.1 26,523 61.6 29.2 13.6 44.9 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5					·				
FRESNO 760 253.3 2.3 754,045 33.6 22.1 19.1 25.0 CLENN 49 16.3 0.1 26.523 61.6 29.2 13.6 44.9 HUMBOLDT 248 82.7 0.7 124,481 66.4 35.9 27.4 44.5 MPERIAL 91 30.3 0.3 137,445 22.1 15.0 9.2 20.8 IMYO 40 13.3 0.1 18,571 71.8 20.6 7.4 33.8 KERN 662 220.7 2.0 616,701 35.8 24.9 21.4 22.4 KINGS 105 35.0 0.3 114,902 30.5 25.2 16.2 34.3 LAKE 172 57.3 0.5 54,984 104.3 31.7 21.9 41.5 LASSEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LASSEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LASSEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LASSEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LASSEN 40 13.3 0.1 32,878 46.5 28.1 11.8 44.3 LASSEN 40 13.3 0.1 32,878 46.5 28.1 11.8 44.3 LASSEN 40.4 13.4 44.7 0.4 106,429 42.0 24.5 16.6 32.3 MARIPOSA 32 10.7 0.1 15,903 67.1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 7.2 40.9 MARIPOSA 32 10.3 0.1 15,903 67.1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 8.2 22.4 MARIPOSA 32 10.3 0.1 15,903 67.1 1 24.1 9.2 22.4 MARIPOSA 32 32 32 32 32 32 32 32 32 32 32 32 32									
GLENN 49 16.3 0.1 26,523 61.6 29.2 13.6 44.9 HUMBOLDT 248 82.7 0.7 124,481 66.4 35.9 27.4 44.5 IMPERIAL 91 30.3 0.3 137,445 22.1 15.0 9.2 20.8 IMPERIAL 91 30.3 0.3 137,445 22.1 15.0 9.2 20.8 IMPON 40 13.3 0.1 18,571 71.8 20.6 7.7.4 33.8 KERN 662 220.7 2.0 616,701 55.8 24.9 21.4 224.3 33.8 KERN 662 220.7 2.0 616,701 55.8 24.9 21.4 224.3 1.4 24.4 1.4 25.					•				
IMPERIAL					·				
INTO	HUMBOLDT	248	82.7	0.7	124,481	66.4	35.9	27.4	44.5
KERN	IMPERIAL	91	30.3	0.3	137,445	22.1	15.0	9.2	20.8
KINGS 105 35.0 0.3 114,902 30.5 25.2 16.2 34.3 LASEN 107 275.3 0.5 54,984 104.3 31.7 21.9 41.5 LASEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LASEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LOS ANGELES 7,870 2,623.3 23.7 3,355,192 28.1 18.3 17.6 19.1 MADERA 134 44.7 0.4 106,429 42.0 24.5 16.6 32.3 MARRIN 224 44.7 0.4 106,429 42.0 24.5 16.6 32.3 MARRIN 224 44.7 0.4 15.9 39.8 139.6 18.4 114.3 22.4 MARIPOSA 32 10.7 0.1 15,903 67.1 24.1 7.2 40.9 MENDOCINO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOCINO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENDOCINO 12 40 a 10,064 39.7 16.0 0 0.3 33.3 MONO 14 1.3 a 10.052 12.6 11.6 0.0 33.3 MONO 14 1.3 a 10.052 12.6 11.6 0.0 33.3 MONO 14 1.3 a 10.052 12.6 11.6 0.0 33.3 MONTEREY 295 98.3 0.9 361,840 27.2 17.5 113.7 21.2 NAPA 195 65.0 0.6 177,735 55.2 22.6 16.1 29.1 NEVADA 146 48.7 0.4 86,506 56.3 20.0 13.5 26.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 26.5 NAPA 25.2 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 26.5 NAPA 25.2 NAPA 15.2 NAPA	INYO	40	13.3	0.1	18,571	71.8	20.6 *	7.4	33.8
LAKE 172 57.3 0.5 54,984 104.3 31.7 21.9 41.5 LASSEN 40 13.3 0.1 28,678 46.5 28.1 11.8 44.3 LOS ANGELES 7,870 2,623.3 23.7 9,352,192 28.1 18.3 17.6 19.1 MADERA 134 44.7 0.4 106,429 42.0 24.5 16.6 32.3 MARIN 284 94.7 0.9 238,981 39.6 18.4 14.3 12.4 MARIPOSA 32 10.7 0.1 15,903 67.1 24.1 7.2 40.9 MENDOCINO 124 41.3 0.4 84,269 49.0 23.1 15.2 30.9 MENCED 206 68.7 0.6 198,522 34.6 24.8 18.5 31.2 MODOC 12 4.0 a 10,064 39.7 16.0 0.0 33.3 MONO 14 1.3 a 10,064 39.7 16.0 0.0 33.3 MONO 14 1.3 a 10,064 39.7 16.0 0.0 33.3 MONTEREY 255 88.3 0.9 361,840 27.2 17.5 13.7 21.2 NAPA 195 65.0 0.6 117.735 55.2 22.6 16.1 29.1 NEVADA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 48.7 0.4 86,506 56.3 20.0 13.5 22.5 NAPA 146 147 58.8 13.70.338 46.8 23.7 21.6 22.8 NAPA 147 147 147 147 147 147 147 147 147 147					·				
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ORANGE 2,292 764.0 6.9 2,614,851 29.2 19.2 17.8 20.7 PLACER 327 109.0 1.0 203,454 53.6 27.4 21.8 33.0 PLUMAS 36 12.0 0.1 20,484 58.6 21.0 5.9 36.1 RIVERSIDE 1,925 641.7 5.8 1,370,338 46.8 23.7 21.6 25.8 SACRAMENTO 1,422 474.0 4.3 1,117,748 42.4 26.3 23.7 28.8 SAN BERNARDINO 1,872 624.0 5.6 1,581,620 39.5 30.7 28.1 33.3 SAN DEGO 2,958 98.0 8.9 2,669,280 36.9 22.0 20.5 23.5 SAN FRANCISCO 761 253.7 2.3 751,532 33.8 15.4 13.2 17.5 SAN LUIS OBISPO 351 117.0 1.1 224,661 38.3 24.1 20.4 27.8 <tr< td=""><td>NAPA</td><td>195</td><td>65.0</td><td>0.6</td><td>117,735</td><td>55.2</td><td>22.6</td><td>16.1</td><td>29.1</td></tr<>	NAPA	195	65.0	0.6	117,735	55.2	22.6	16.1	29.1
PLACER 327 109.0 1.0 203,454 53.6 27.4 21.8 33.0 PLUMAS 36 12.0 0.1 20,484 58.6 21.0 5.9 36.1 RIVERSIDE 1,925 641.7 5.8 1,370,338 46.8 23.7 21.6 25.8 SACRAMENTO 1,422 474.0 4.3 1,117,748 42.4 26.3 23.7 28.8 SAN BENITO 33 11.0 0.1 42,604 25.8 15.4 5.6 25.3 SAN BERNARDINO 1,872 624.0 5.6 1,581,620 39.5 30.7 28.1 33.3 SAN BERNARDINO 1,872 624.0 5.6 1,581,620 39.5 30.7 28.1 33.3 SAN BERNARDINO 1,872 624.0 5.6 1,581,620 39.5 30.7 28.1 33.3 SAN GORDINA 602 200.7 1.8 524,661 38.3 22.1 20.5 33.8 1	NEVADA	146	48.7	0.4	86,506	56.3	20.0	13.5	26.5
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SANTA CRUZ 274 91.3 0.8 241,510 37.8 20.3 15.6 25.0 SHASTA 354 118.0 1.1 160,877 73.3 36.1 28.9 43.3 SIERRA 7 2.3 a 3,410 68.4 26.1 0.0 65.0 SISKIYOU 81 27.0 0.2 44,616 60.5 24.8 14.6 35.1 SOLANO 380 126.7 1.1 370,556 34.2 26.4 21.6 31.2 SONOMA 555 185.0 1.7 419,459 44.1 21.3 17.8 24.8 STANISLAUS 555 185.0 1.7 413,806 44.7 27.8 23.4 32.2 SUTTER 109 36.3 0.3 73,721 49.3 27.1 17.7 36.6 TEHAMA 117 39.0 0.4 54,195 72.0 30.7 19.5 41.9 TULARE 397	SANTA BARBARA	432	144.0	1.3	391,425	36.8	18.5	15.1	22.0
SHASTA 354 118.0 1.1 160,877 73.3 36.1 28.9 43.3 SIERRA 7 2.3 a 3,410 68.4 26.1 0.0 65.0 SISKIYOU 81 27.0 0.2 44,616 60.5 24.8 14.6 35.1 SOLANO 380 126.7 1.1 370,556 34.2 26.4 21.6 31.2 SONOMA 555 185.0 1.7 419,459 44.1 21.3 17.8 24.8 STANISLAUS 555 185.0 1.7 413,806 44.7 27.8 23.4 32.2 SUTTER 109 36.3 0.3 73,721 49.3 27.1 17.7 36.6 TEHAMA 117 39.0 0.4 54,195 72.0 30.7 19.5 41.9 TULARE 397 132.3 1.2 349,860 37.8 24.3 19.7 28.9 TUOLUMNE 94 <t< td=""><td>SANTA CLARA</td><td>1,188</td><td>396.0</td><td>3.6</td><td>1,603,340</td><td>24.7</td><td>17.0</td><td>15.2</td><td>18.7</td></t<>	SANTA CLARA	1,188	396.0	3.6	1,603,340	24.7	17.0	15.2	18.7
SIERRA 7 2.3 a 3,410 68.4 * 26.1 * 0.0 65.0 SISKIYOU 81 27.0 0.2 44,616 60.5 24.8 14.6 35.1 SOLANO 380 126.7 1.1 370,556 34.2 26.4 21.6 31.2 SONOMA 555 185.0 1.7 419,459 44.1 21.3 17.8 24.8 STANISLAUS 555 185.0 1.7 413,806 44.7 27.8 23.4 32.2 SUTTER 109 36.3 0.3 73,721 49.3 27.1 17.7 36.6 TEHAMA 117 39.0 0.4 54,195 72.0 30.7 19.5 41.9 TRINITY 23 7.7 0.1 13,363 57.4 23.6 6.2 40.9 TUARE 397 132.3 1.2 349,860 37.8 24.3 19.7 28.9 TUOLUMNE 94 <td< td=""><td></td><td></td><td></td><td>0.8</td><td>241,510</td><td></td><td></td><td></td><td></td></td<>				0.8	241,510				
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	YUBA	99		0.3					

Note: Rates are per 100,000 population; ICD-9 Codes 490-496.

Source: State of California, Department of Finance, Race/Ethnic Population Estimates by County with Age and Sex Detail, 1970-1996, January 1998. State of California, Department of Health Services, Death Records.

^{*} Death rate unreliable (relative standard error is greater than 30%).

⁺ Standard error indeterminate, death rate based on no (zero) deaths.

⁻ Confidence limit is not calculated for zero events. a Represents a percentage of more than zero but less than 0.05.

TABLE 5 POPULATION ESTIMATES BY RACE/ETHNICITY, SEX, AND AGE CALIFORNIA. 1996

RACE/ ETHNICITY	TOTAL	AGE GROUPS										
		Under 1	1 to 4	5 to 14	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 to 74	75 to 84	85 & Older
Total	32,383,811	540,625	2,298,325	4,914,945	4,217,867	5,357,377	5,401,744	3,806,109	2,359,866	1,954,134	1,161,701	371,118
Male	16,227,924	276,538	1,175,708	2,514,194	2,198,841	2,828,447	2,741,290	1,887,994	1,146,990	879,924	465,740	112,258
Female	16,155,887	264,087	1,122,617	2,400,751	2,019,026	2,528,930	2,660,454	1,918,115	1,212,876	1,074,210	695,961	258,860
Asian/Other	3,645,998	60,717	254,397	564,354	533,767	599,056	631,504	438,067	256,917	188,491	92,392	26,336
Male	1,791,148	31,247	131,069	288,489	274,693	301,165	303,109	207,939	120,782	81,782	39,642	11,231
Female	1,854,850	29,470	123,328	275,865	259,074	297,891	328,395	230,128	136,135	106,709	52,750	15,105
Black	2,275,401	37,276	170,539	388,094	345,698	395,287	371,892	242,802	152,306	102,194	53,430	15,883
Male	1,121,544	18,939	86,386	196,545	182,527	203,575	180,097	114,139	71,336	43,656	19,675	4,669
Female	1,153,857	18,337	84,153	191,549	163,171	191,712	191,795	128,663	80,970	58,538	33,755	11,214
Hispanic	9,330,740	252,617	1,034,656	1,816,510	1,436,639	1,808,376	1,372,005	747,447	416,154	280,103	122,130	44,103
Male	4,830,901	128,626	527,237	925,990	749,483	1,012,882	720,340	376,227	200,126	126,447	48,089	15,454
Female	4,499,839	123,991	507,419	890,520	687,156	795,494	651,665	371,220	216,028	153,656	74,041	28,649
White	17,131,672	190,015	838,733	2,145,987	1,901,763	2,554,658	3,026,343	2,377,793	1,534,489	1,383,346	893,749	284,796
Male	8,484,331	97,726	431,016	1,103,170	992,138	1,310,825	1,537,744	1,189,689	754,746	628,039	358,334	80,904
Female	8,647,341	92,289	407,717	1,042,817	909,625	1,243,833	1,488,599	1,188,104	779,743	755,307	535,415	203,892

Note: White, Black, and Asian/Other exclude Hispanic ethnicity. Hispanic includes any race category.

Source: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Detail, 1970-1996, January 1998.

Notes

The chronic obstructive pulmonary disease death data presented in this report are ICD-9 codes 490-496.

The term "significant" within the text indicates either statistically significant based on the slope of a least-squares line not equal to zero (p<.05), or statistically significant based on the difference between two independent rates (p<.05).

As with any vital statistics data, caution needs to be exercised when analyzing small numbers, including the rates derived from them. Death rates calculated from a small number of deaths and/or population tend to be unreliable and subject to significant variation from one year to the next. To assist the reader, 95 percent confidence intervals are provided in the data tables as a tool for measuring the reliability of the death rates. Rates with a relative standard error (coefficient of variation) greater than 30 percent are indicated with an "*" (asterisk). Also, three-year averages were used in **Table 4** to increase the reliability of the rates derived from small numbers, and to reduce the year-to-year variability inherent among these rates.

The four race/ethnic groups presented in the tables are mutually exclusive. White, Black, and Asian/Other exclude Hispanic ethnicity, while Hispanic includes any race/ethnic group. In order to remain consistent with the population data obtained from the Department of Finance, the "White race/ethnic group" includes: White, Other (specified), Not Stated, and Unknown; and the "Asian/Other race/ethnic group" includes: Aleut, American Indian, Asian Indian, Asian (specified/unspecified), Cambodian, Chinese, Eskimo, Filipino, Guamanian, Hawaiian, Japanese, Korean, Vietnamese, Other Pacific Islander, Samoan, Thai, and Laotian. Race/ethnic data are not presented for years prior to 1985 due to the unavailability of mutually exclusive data for Hispanics and Whites. In addition, caution should be exercised in the interpretation of mortality data by race/ethnicity. Misclassification of race/ethnicity on the death certificate may contribute to death rates that may be underestimated among Hispanics and Asian/Other.⁶

The method used to analyze vital statistics data is also important. Analyzing only the number of deaths has its disadvantages and can be misleading because the population at risk is not taken into consideration. Crude death rates, on the other hand, show the actual rate of dying in a given population, but the age composition of that population is not taken into consideration. Therefore, the use of age-adjusted death rates becomes the preferred method for measuring death rates over time, and for comparing death rates between race/ethnic groups, sex, and geographic areas. The 1940 United States (standard million) population was used as the basis for age-adjusting in this report.

For a more complete explanation of the age-adjusting methodology see the *Healthy People 2000 Statistical Notes* publication.⁷ Detailed information on data quality and limitations as well as the formulas used to calculate vital statistics rates are presented in the appendix of the annual report, *Vital Statistics of California*.⁴ Another source of information is the Department of Health Services, Center for Health Statistics Home Page [www.dhs.ca.gov].

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